ZHARNYL'SKIY, I. M.

ZHARNYL'SKIY, I. M. — "Investigation of the Interaction of Woven Wire Screen with a Stream of Air." Min Higher Education USSR. Leningrad Agricultural Inst. Engineering Faculty. Leningrad, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

No 1

SO: Knizhnaya Letopis', 1956, pp 102-122, 124

ZHARNYL'SKIY, M.M.

Rapid method for the chromium tanning of small hides for shoe uppers. Obm. tekh. opyt. [MLP] no.29:6-9 '57.
(MIRA 13:1)

(Tanning)

ZHARN. S.I.Y., M.I.

TEREKHOV, A.P.; POLYAKEVICH, V.G.; ZHARNITSKIY, M.I., inzhener, retsenzent; GOLOVIN, S.Ya., inzhener, redaktor; MATVEYEVA, L.S., redaktor; UVAROVA, A.F., tekhnicheskiy redaktor.

[Planetary reducing gears with friction drive and ball bearings] Sharikovye planetarno-friktsionnye reduktory. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1955. 83 p.(MLRA 8:10)
(Gearing)

LYUKSEMBURG, M.S.; ZHARNYL'SKIY, M.M.; RUMYANTSEVA, L.G.

Commerical and technical properties of coarse-wool sheepskins classified by breed and area of manufacture. Kozh.-obuv.prom.3 no.4:5-8 Ap '61. (MIRA 14:5)

(Hides and skins)
(Sheep)

ZHARNOVA, T. M.

"Some Information on the Hygienic Regime of Areas into which Plants have been Introduced," paper presented at the Scientific Conference of the Leningrad Sanitation Institute, 8-10 May 1956.

U-3,054,017

ZHARNOVSKIY, A. M.

Mendeleev, Dimitrii Ivanovich, 1834-1907

Criticism of S.Z. Roginskiy's article "D.I. Mendeleev on the inevitability of changes in the mass during the transformation of elements." Usp.khim., 21, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

ZHARNOVSKIY, A. M.

Chemistry, Physical and Theoretical

Criticism of S. Z. Roginskii's article "D. I. Mendeleev on the inevitability of changes in the mass during the transformation of elements." Usp. khim. 21 No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952, Unclassified.

SOV/124-58-3-3073

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 76 (USSR)

AUTHOR: Zharnyl'skiy, I. M.

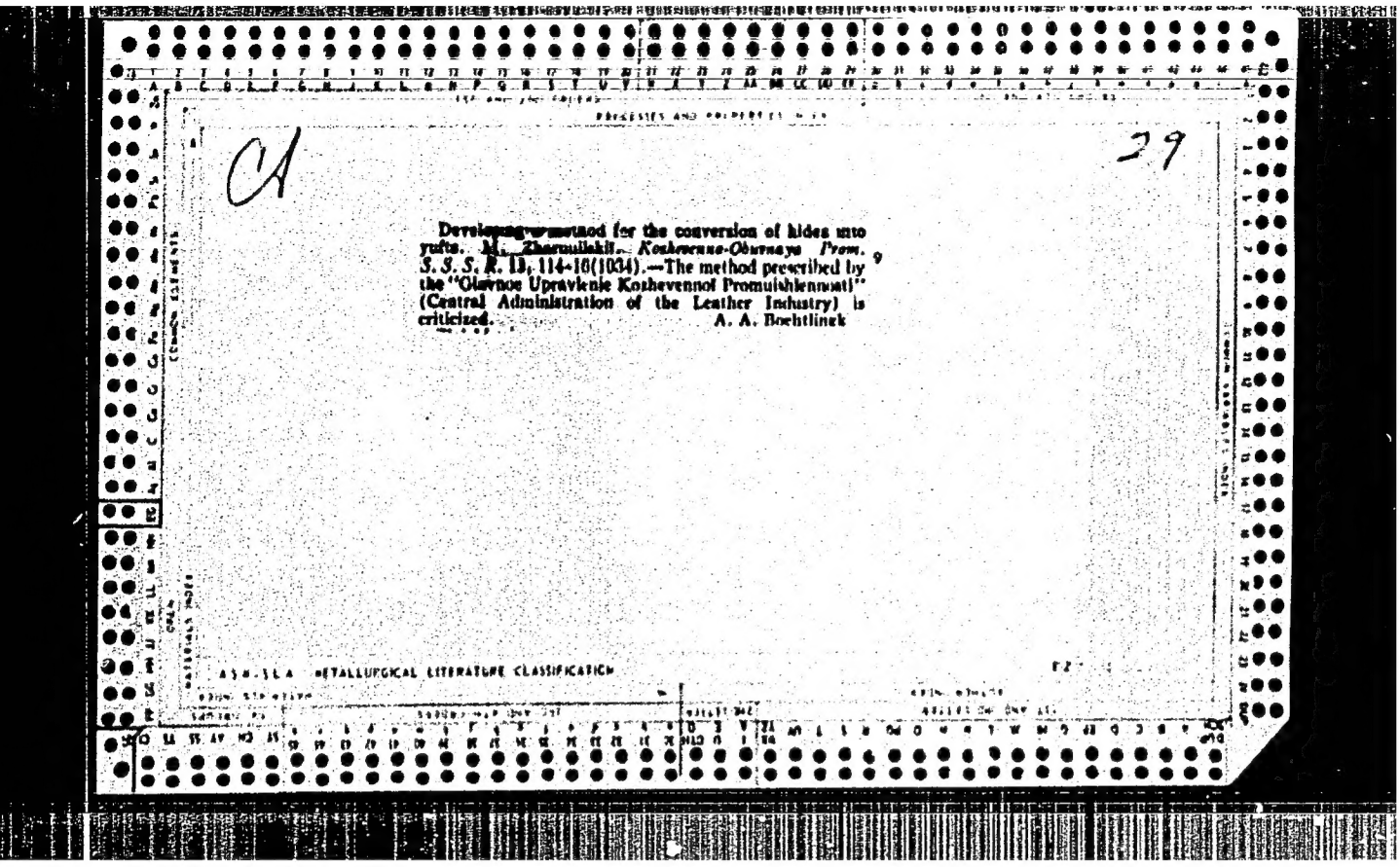
TITLE: The Hydraulic Losses in a Layer of a Pile of Grain During Grain Cleaning by Means of Air Blow (Gidravlicheskiye poteri v sloye vorokha v protsesse zernoochistki)

PERIODICAL: Zap. Leningr. s.-kh. in-ta, 1956, Vol 12, pp 247-251

ABSTRACT: Considerations are given pertaining to the estimation of losses in a grain pile during grain cleaning by means of air blow. The motion of air through the layer is regarded as a motion along a parallel "pipe" network the resistance of which is a sum of the friction losses along the passages plus the increased turbulence losses caused by the local resistances. An evaluation of the magnitude of the hydraulic losses in a layer of the grain pile is given.

V. N. Gusev

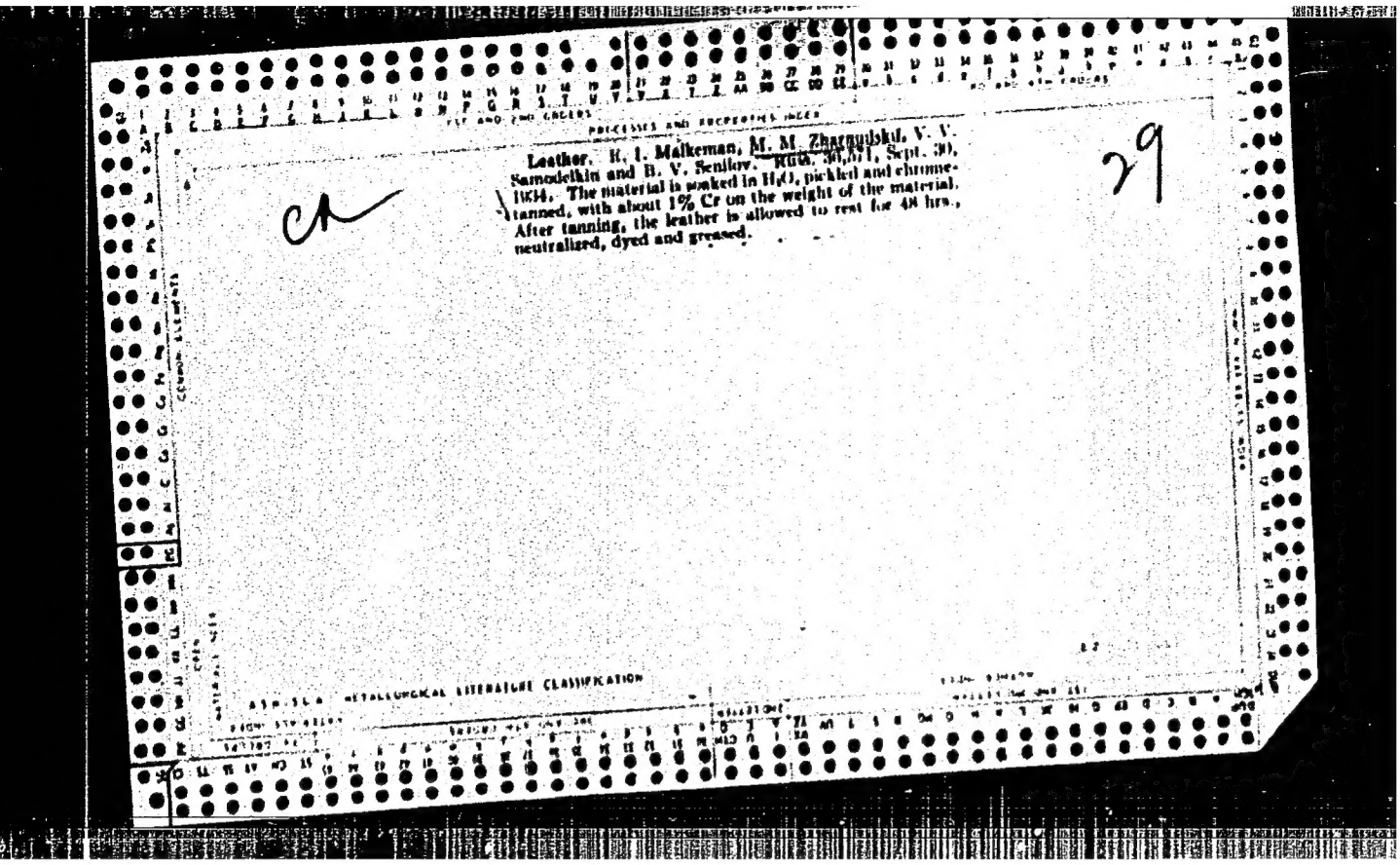
Card 1/1



CA 29

Developing a method for the conversion of hides into rufts. M. Zhernulskii. *Kozhevenno-Obuvnaya Prom. S. S. S. R.* 13, 114-16(1934).—The method prescribed by the "Glavnoe Upravlenie Kozhevennoi Promyshlennosti" (Central Administration of the Leather Industry) is criticized.
A. A. Boehtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Leather. R. I. Malkeman, M. M. Zharnavskii, V. V. Samodelkin and B. V. Senilov. RUS. 30,511, Sept. 30, 1934. The material is soaked in H_2O, pickled and chrome-tanned, with about 1% Cr on the weight of the material. After tanning, the leather is allowed to rest for 48 hrs., neutralized, dyed and greased.

29

ZHARNYL'SKIY, M.M., inzhener.

Separate processing of collar and side leather. Leg.prom. 14 no.9: 19-20 S '54. (MLRA 7:9)
(Leather)

ZHAROV, A.

Everything depends on people. Okhr.truda i sots.strakh. 3 no.4:37-38 Ap '60. (MIRA 13:6)

1. Tekhnicheskiy inspektor Kazakhskogo respublikanskogo soveta profsoyuzov, g.Alma-Ata.
(Alma-Ata--Metallurgy--Hygienic aspects)

ZHAROV, A.

Automatic control of turbines. IUn. tekh. no.5:30-31 My '57.
(Turbines) (Automatic control) (MIRA 10:6)

ZHAROV, A.

International short-wave radiotelegraph competition in Leningrad. p.3. (Radio Vol. 4, no. 1, 1955, Sofiya)

SO: Monthly List of East European Accessions, (EEAL). LC, Vol. 4, No. 11, Nov. 1955, Uncl.

ZHAROV, A.

Important Tasks for the Engineers and Technicians of the Ministry of Communication. In Radio Engineering, No. 1:1 Jan 55

ZHAROV, A.

International Short Wave Competitions in Radiotelegraphy at LENINGRAD. In Radio Engineering, No. 1:3 Jan 55

ZHAROV, Aleksandr

Our spring. Voen.znan. 37 no.5:6-7 My '61. (MIRA 14:4)
(Russia)

ZHAROV, A.

Russia - Army

Party indoctrination work in the Soviet Army; article two: two deputy political instructors. Sots. vest. 33, no. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

ZHAROV, Aleksandr

Program of great accomplishments. Sov. profsoiuzy no.17:5-6 S '61. (MIRA 14:8)

(Communism)
(Russia--Economic policy)

ACCESSION NR: AP4037293 S/0190/64/006/005/0962/0963

AUTHORS: Zharov, A. A.; Kissin, Yu. V.; Pirogov, O. N.; Yenikolopyan, N. S.

TITLE: Radical stereospecific high pressure polymerization of propylene

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 5, 1964, 962-963

TOPIC TAGS: propylene polymerization, high pressure polymerization, radical stereospecific polymerization, isotactic propylene polymer

ABSTRACT: Isotactic polypropylene was obtained by radical polymerization of propylene at 7000 atmospheres pressure and at temperatures of 100 or 200C. The polymerization of propylene occurs in the presence of such initiators as azobutyronitrile, benzoyl peroxide, and tert.butylperoxide (as well as without them). The molecular weight of the polymer obtained at 200C in the presence of benzoyl peroxide was 900. Infrared spectroscopy showed that the polymer was in a state of isotactic configuration. This was confirmed by x-ray photographs. The polypropylene obtained by radical polymerization at 200C was 45-49% isotactic, while the one obtained at 100C was 54-56% isotactic. The degree of crystallinity

Card 1/2

ACCESSION NR: AP4037293

of the polymer was 13%. Orig. art. has: 1 equation.

ASSOCIATION: none

SUBMITTED: 19Nov63 DATE ACQ: 09Jun64 ENCL: 00

SUB CODE: MT, OC NO REF SOV: 002 OTHER: 003

Card 2/2

ZHAROV, A.A.; TATARINTSEV, V.V.; YENIKOLOPYAN, N.S.

Effect of high pressure on the polymerization of styrene initiated by anhydrous perchloric acid. Vysokom. soed. 7 no.11:1863-1865 N '65. (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR. Submitted November 30, 1964.

L 39700-66 EWP(j)/EWT(m)/T IJP(c) RM/GD-2

ACC NR: AP6008963 (A) SOURCE CODE: UR/0190/65/007/011/1863/1865

AUTHORS: Zharov, A. A.; Tatarintsev, V. V.; Yenikolopyan, N. S. 14 B

ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Effect of high pressure upon polymerization of styrene, initiated by anhydrous perchloric acid

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1863-1865

TOPIC TAGS: polymerization kinetics, pressure effect, styrene

ABSTRACT: The effect of pressure upon ionic polymerization of styrene in the presence of anhydrous perchloric acid in chlorobenzene has been investigated by following the kinetics of the reaction. The latter was studied by using a modification of a dilatometric method previously described by A. A. Zharov and N. S. Yenikolopyan (Zh. fiz. khimii, 38, 2727, 1964). The reaction was conducted at 10C and at pressures from 1 to 3000 atmospheres. It was established that under such conditions the molecular weight of the polymer changes by 20%, as illustrated in Fig. 1, while in the case of radical polymerization the changes of molecular

Card 1/2 UDC: 66.095.26+678.744

L 39700-66

ACC NR: AP6008963

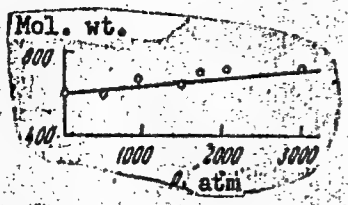


Fig. 1. Molecular weight of polystyrene as a function of pressure.

weight change by a factor of 10. It was thus established that an increase in pressure affects the rate constant of the cationic polymerization of styrene to a greater degree than the rate constant of the radical process. Orig. art. has: 3 figures and 4 equations.

SUB CODE: 07, 11/ SUBM DATE: 30Nov64/ ORIG REF: 002/ OTH REF: 004

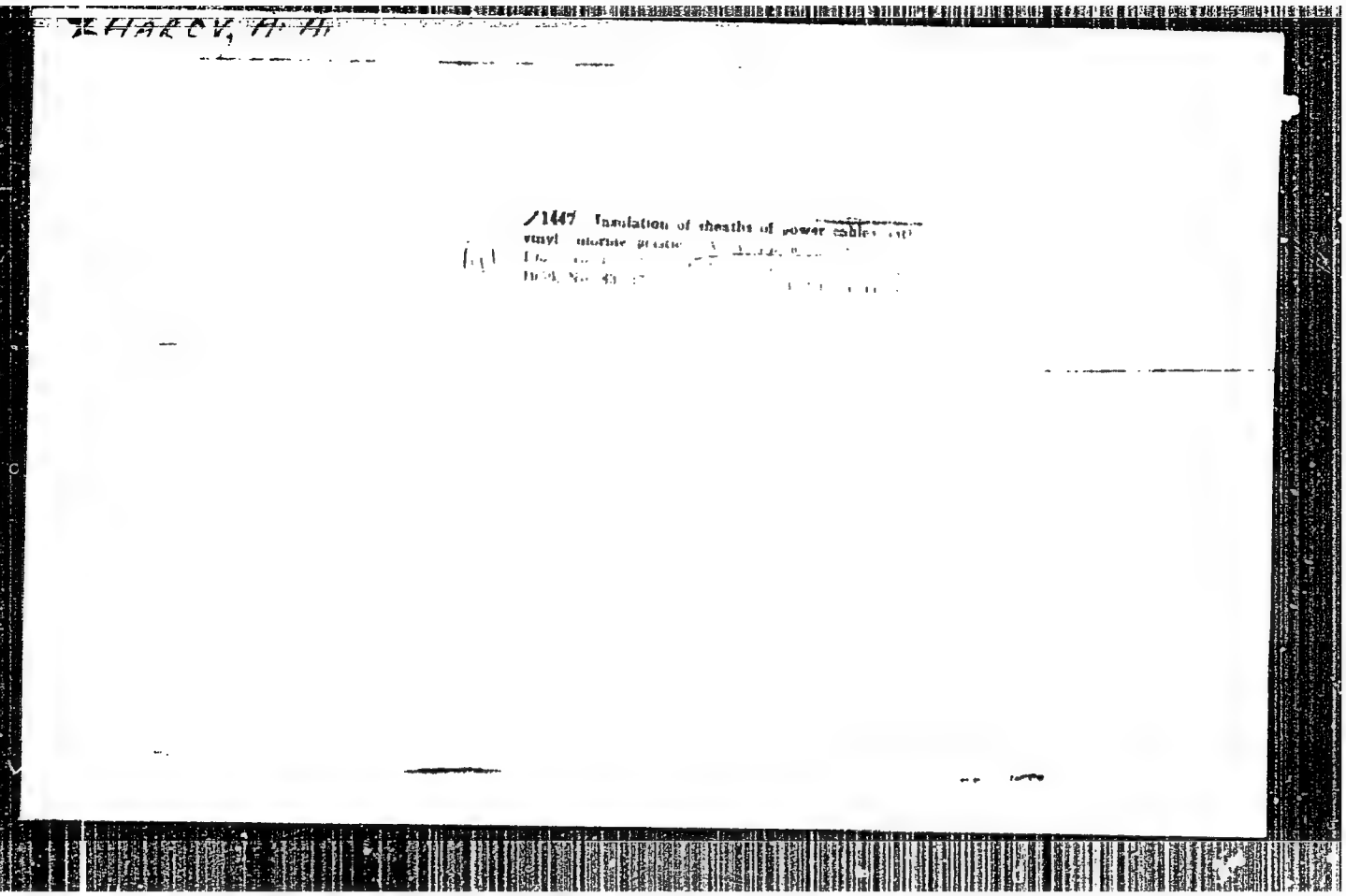
Card 2/2 gk

ZHAROV, A.A.; KISSIN, Yu.V.; PIROGOV, O.N.; YENIKOLOPYAN, N.S.

Stereospecific radical polymerization of propylene at high pressures. Vysokom. soed. 6 no. 5:962-963 My '64.
(MIRA 17:6)

ZHAROV, A.A., inzhener.

Insulation of power cable sheathing with plasticized vinyl chloride. Energetik 3 no.11:22-24 N '55. (MLRA 9:1)
(Electric insulators and insulation) (Ethylene)



/1447 Insulation of sheaths of power cables [illegible]
vinyl [illegible]

Subject	: USSR/Electricity	AID P - 3553
Card 1/1	Pub. 29 - 17/27	
Author	: Zharov, A. A., Eng.	
Title	: Insulation of the sheathing of power cables with vinyl chloride mastic	
Periodical	: Energetik, 11, 22-24, N 1955	
Abstract	: The author suggests insulating the sheathing of power cables with vinyl chloride mastic at the crossings of the cables with electric railroad tracks. This is an easy way to avoid the electrolytic action of stray currents on the sheathing of the cables. Two drawings.	
Institution	: None	
Submitted	: No date	

ZHAROV, A.F., kand.tekhn.nauk, inzh.-podpolkovnik

Use of radio electronic methods in medicine. Voen.med.zhur. no.5:78-84 My '59. (MIRA 12:8)
(ELECTRONICS,
med. use of electronic appar. (Rus))
(APPARATUS AND INSTRUMENTS,
med. use of electronic appar. (Rus))

ZHAROV, A.F.

Field Z-Ray Apparatus
VOYENNO-MEDITSINSKIY ZHURNAL (Military Medical Journal), no. 2, February 1955, p. 70.

ZHAROV, A.F., inzhener-podpolkovnik, kandidat tekhnicheskikh nauk

Mobile dressing station. Voen.-med.zhur. no.7:79-81 Jl '56.
(MEDICINE, MILITARY) (MLRA 9:11)

ZHAROV, A.I.

S/137/63/000/003/005/016
A006/A101

AUTHORS: Krutikov, A. N., Akshentseva, A. P., Volikova, I. O., Zharov, A. I.,

TITLE: Properties of grade X17T (Kh17T) ferrite high-chromium steel weld joints

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1963, 9. abstract 3E49 ("Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr.", 1962, no.38, 52 - 63)

TEXT: Considering low a_K (1 kgm/cm^2) in the heat-affected zone, ferrite Kh17T steel is recommended to be used for manufacturing equipment that is not subjected to dynamic loads. Heat treatment does not raise a_K [illegible] this steel. The heat affected zone of Kh17T steel welds is not prone to intercrystalline corrosion. The basic electrode for welding Kh17T steel is the [illegible]/CB-1X18N9T (TsL11/cv-1Kh18N9B) electrode, securing high corrosion resistance of the weld metal and mechanical properties equalling those of the base metal.

[Abstracter's note: Complete translation] V. Pomenko

Card 1/1

OZHEGOVA, V.Ye.; ZHAROV, A.I.

Experiments in raising carp in rice fields in the vicinity of Stalinabad. Trudy AN Tadzh.SSR 112:5-11 '59. (MIRA 13:11)

1. Institut zoologii i parazitologii AN Tadzhikskoy SSR imeni akademika Ye.N. Pavlovskogo.
(Tajikistan--Carp)

ZHAROV, A.M., inzh.

Frames for soaking off and liming of skins. Leg.prom. 18 no.7:35-36 Jl '58. (MIRA 11:9)

(Tanning)

ZHAROV, A.M., inzhener

Packing of tanning extracts should be improved. Leg.prom.15 no.8:12 Ag '55. (MLRA 8:10)

(Tannins)

ZHAROV, Aleksandr Petrovich. ZHELTOV, V.P., red.; SHLENNIKOVA, Z.V., red.izd-va. SALAZKOV, N.P., tekhn.red.

[Practical handbook for the operation of motorboats with L-6/3 engines] Prakticheskoe posobie eksploatatsiimotornykh lodok s dvigateliami L-6/3. Moskva, Izd-vo "Rechnoi transport," 1958 64 p. (MIRA 11:9)

(Motorboats)

L 06542-67

ACC NR: AP6019758 (A) SOURCE CODE: UR/0113/66/000/006/0026/0029

AUTHOR: Zharov, A. P. (Candidate of technical sciences)

ORG: none

TITLE: Results of experimental studies of brake system linkage on long-wheelbase trailers

SOURCE: Avtomobil'naya promyshlennost', no. 6, 1966, 26-29

TOPIC TAGS: trailer, brake, hydraulic brake, air brake, truck trailer, INDUSTRIAL TRUCK, VEHICLE COMPONENT

ABSTRACT: Characteristics of the braking process in truck-trailer combinations was studied experimentally in order to determine the sequence of braking, the stress in the coupling system, and the difference in time between the engagement of the brakes and braking. Experiments were conducted on a truck-trailer combination consisting of the KrAZ-214 truck and six different trailers. Five trailers had air brakes and the sixth was equipped with hydraulic brakes. Experiments showed that when the air brakes of long-wheelbase trailers are rapidly applied the delay in braking is from 0.15 to 0.30 sec; under normal conditions the delay is 0.15 sec, during emergency braking it is 0.30 sec; for trailers with hydraulic brakes, the corresponding delays are of 0.7, 0.6, and 0.8 sec. These delays in the braking of trailers produces a compressive force of 8800 kg in the coupling system during rapid braking, and 1300 kg

Card 1/2 UDC: 629.11.014.5.001.5

L 06512-67

ACC NR: AP6019758

during normal braking. Both air and hydraulic brakes of the long-wheelbase trailers respond poorly to changes in the position of the brake pedal. Orig. art. has: 6 figures and 2 tables. [SA]

SUB CODE: 13/ SUBM DATE: none

Card 2/2 mlE

SHISHKOV, V.P., dotsent; BABAK, I.M., aspirant; SOLOV'YEV, F.A., dotsent; DANILEVSKIY, V.M., dotsent; VISHNYAKOV, S.I., dotsent; TITOV, G.I.; OKUNTSOV, L.P.; AFANAS'YEV, V.P.; ZHAROV, A.V., assistent; SLUGIN, V.S.; KRYLOV, O.N., aspirant

Noninfectious diseases. Veterinariia 41 no.4:64-80 Ap '64.
(MIRA 17:8)

1. Moskovskaya veterinarnaya akademiya (for Shishkov, Zharov).
2. Belotserkovskiy sel'skokhozyaystvennyy institut (for Babak).
3. Velikolukskiy sel'skokhozyaystvennyy institut (for Solov'yev).
4. Kurskiy sel'skokhozyaystvennyy institut (for Vishnyakov).
5. Zaveduyushchiy otdelom nezaraznykh zabolevaniy Buryatskoy nauchno-proizvodstvennoy veterinarnoy laboratorii (for Titov).
6. Zaveduyushchiy Berezovskoy veterinarnoy laboratoriyey, Volgogradskaya obl. (for Okuntsov). 7. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Kraynego Severa (for Afanas'yev).
8. Pushkinskiy zverosovkhoz Moskovskoy oblasti (for Slugin).
9 Leningradskiy veterinarnyy institut (for Krylov).

ARTEM'YEV, S.A.; NYUNIKOVA, O.I.; ZHAROV, A.V.; METAL'NIKOV, B.P.; KISLOVA, T.A.; STAROSTINA, Z.D.; CHASTIKOVA, A.V.; TEMYANKO, S.A.; IKONNIKOV, N.N.; APALOVA, Z.T.; GRISHINA, A.M.

Levomycetin in the treatment of gonorrhea; results of a cooperative study. Vest. derm. i ven. 33 no.2:70-73 Mr-Ap '59. (MIRA 12:7)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (zav.otdelom gonorei - prof. I.M. Porudominskiy, dir. - kand. med. nauk N.M. Turanov) Ministerstva zdravookhraneniya RSFSR. 2. TSentral'nyy nauchno-issledovatel'skiy kozhno-venerologicheskiy instituta (for Nyunkova). 3. Bashkirskiy krayevoy kozhno-venerologicheskiy institut (for Zharov). 4. Gor'kovskiy krayevoy kozhno-venerologicheskiy institut (for Temyanko). 5. Sverdlovskiy krayevoy kozhno-venerologicheskiy institut (for Grishina).

(CHLORAMPHENICOL, ther. use,
gonorrhea (Rus))
(GONORRHEA, ther.
chloramphenicol (Rus))

SEMENOV, P.P.; SHEKHOVTSOVA, V.N.; LUK'YANOV, D.P.; ZHAROV, A.V.; SENDEROVICH, M.G.; FATKULBAYANOVA, M.B.

Effectiveness of penicillin and streptomycin in the treatment of acute uncomplicated gonorrhea in males. Vest. derm. i ven. 38 no.3:68-70 Mr '64. (MIRA 18:4)

1. Otdel gonorei (zav. - P.P.Semenov) Ufimskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. P.N.Shishkin) i gorodskoy venerologicheskiy dispanser (glavnyy vrach S.M.Rutes).

ZHAROV, A. V.

Zharov, A. V. "On the problem of nonspecific serological reactions," Voprosy dermato-venerologii, Vol. IV, 1948, p. 312-16, - Bibliog: 6 items.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

ZHAROV, Fedor Ivanovich, general-leytenant aviatsii v zapase;
IZMAYLOV, A.A., red.; CHPAYEVA, R.I., tekhn. red.

[Exploits of Red Airmen] Podvigi Krasnykh letchikov. Moskva, Voenizdat, 1963. 118 p. (MIRA 16:6)
(Russia--Air force)

ACC NR: AP6035872 SOURCE CODE: UR/0413/66/000/020/0092/0092

INVENTOR: Butkov, N. A.; Filippov, V. F.; Barabanova, G. P.; Yerinov, V. S.; Zharov, G. A.; Kochkin, Yu. A.

ORG: None

TITLE: A method for producing a sulfonate additive. Class 23, No. 187199

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 92

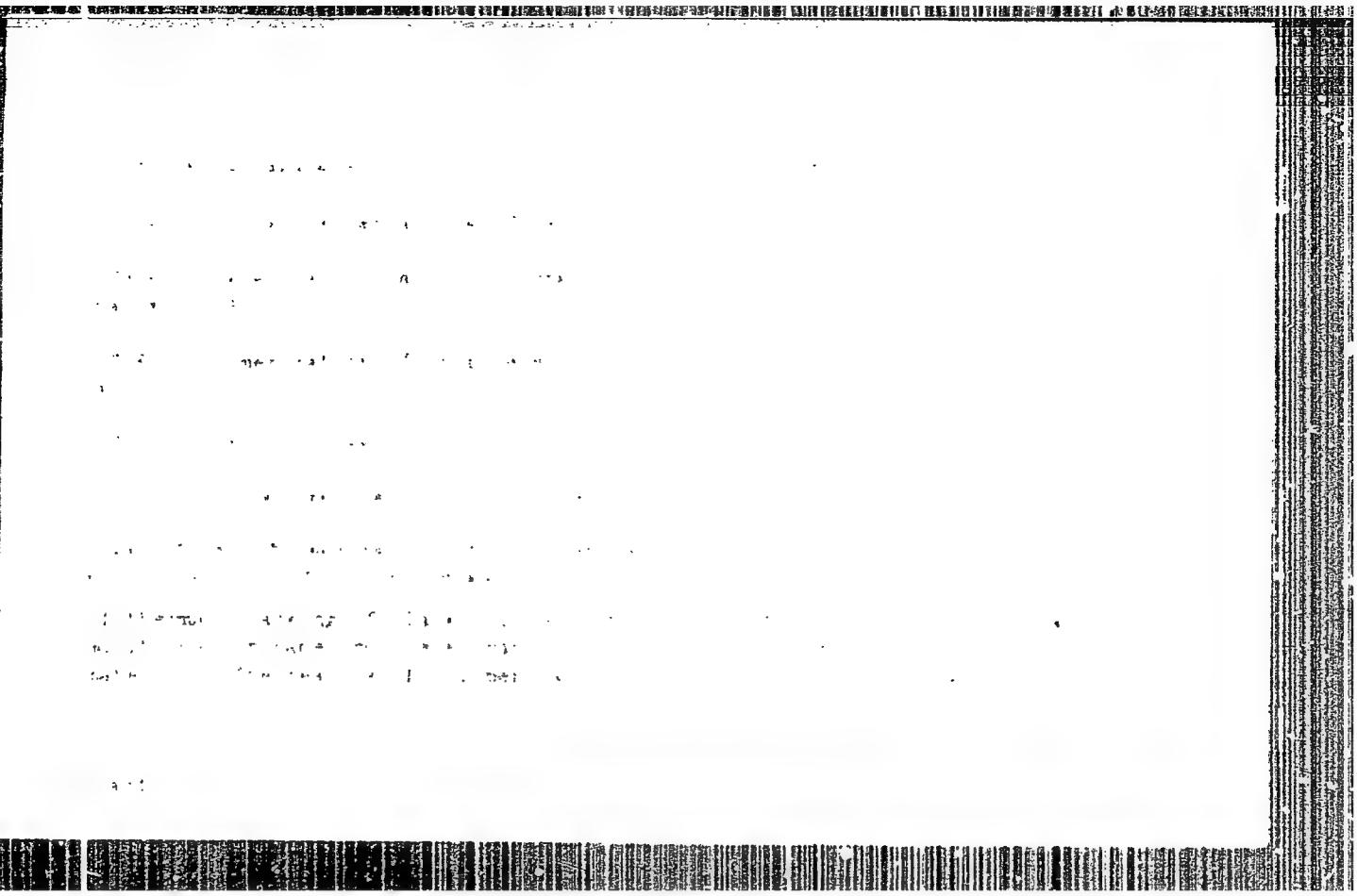
TOPIC TAGS: fuel and lubricant additive, sulfone, sulfurization, petroleum product

ABSTRACT: This Author's Certificate introduces a method for producing a sulfonate additive by sulfurization of petroleum products with subsequent neutralization of the resultant sulfo acids and treatment with metallic compounds. The additive is improved by taking oils which contain sulfones as the initial petroleum derivatives and using magnesium chloride in the presence of sodium carbonate and caustic soda to treat the compounds obtained after neutralization.

SUB CODE: 11, 07/ SUBM DATE: 11May65 /ATD PRESS: 5105

Card 1/1

UDC: 621.892.84:547.419.6.07



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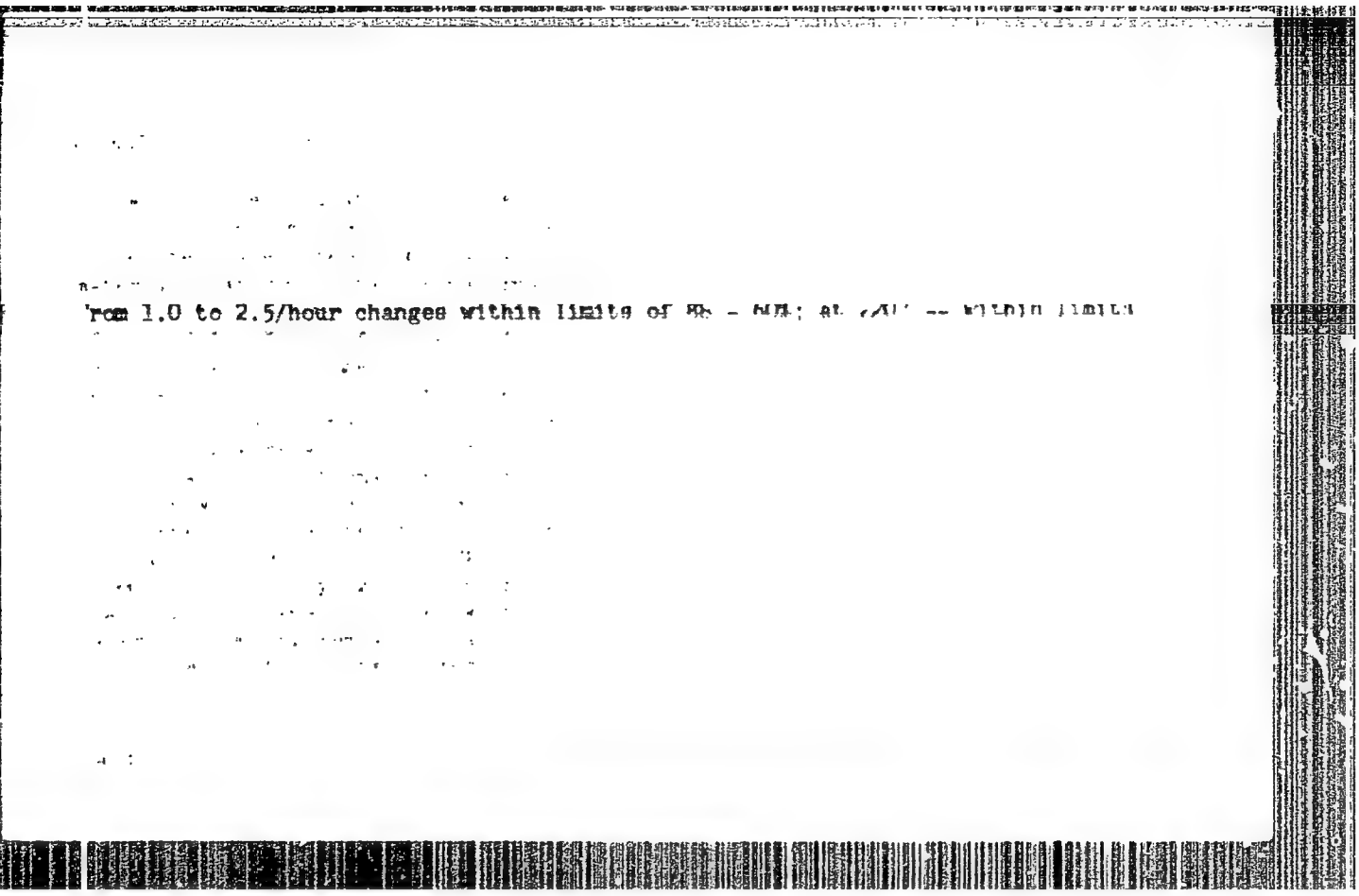
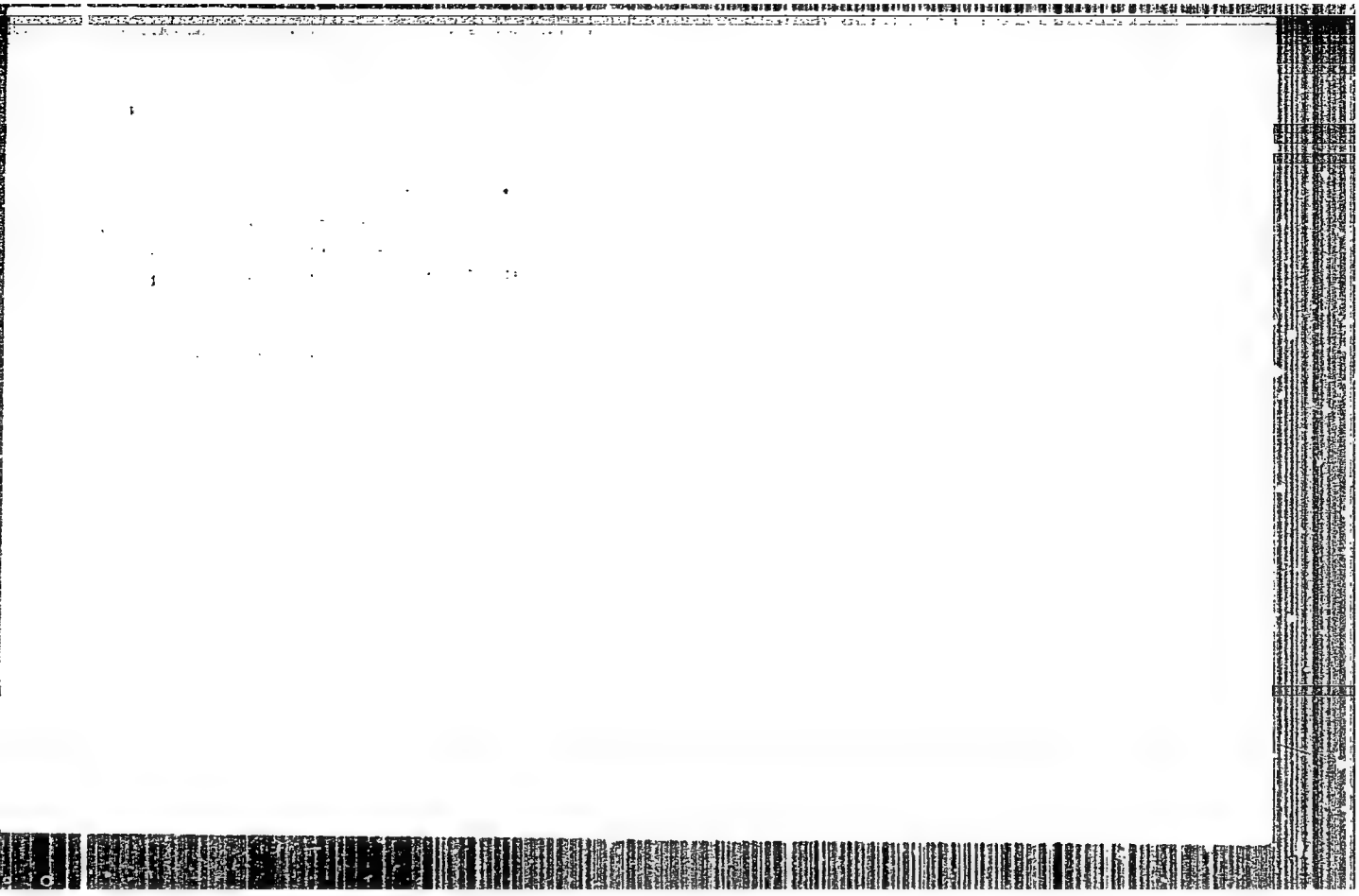




ZHAROV, G.G., kandidat tekhnicheskikh nauk, dotsent.

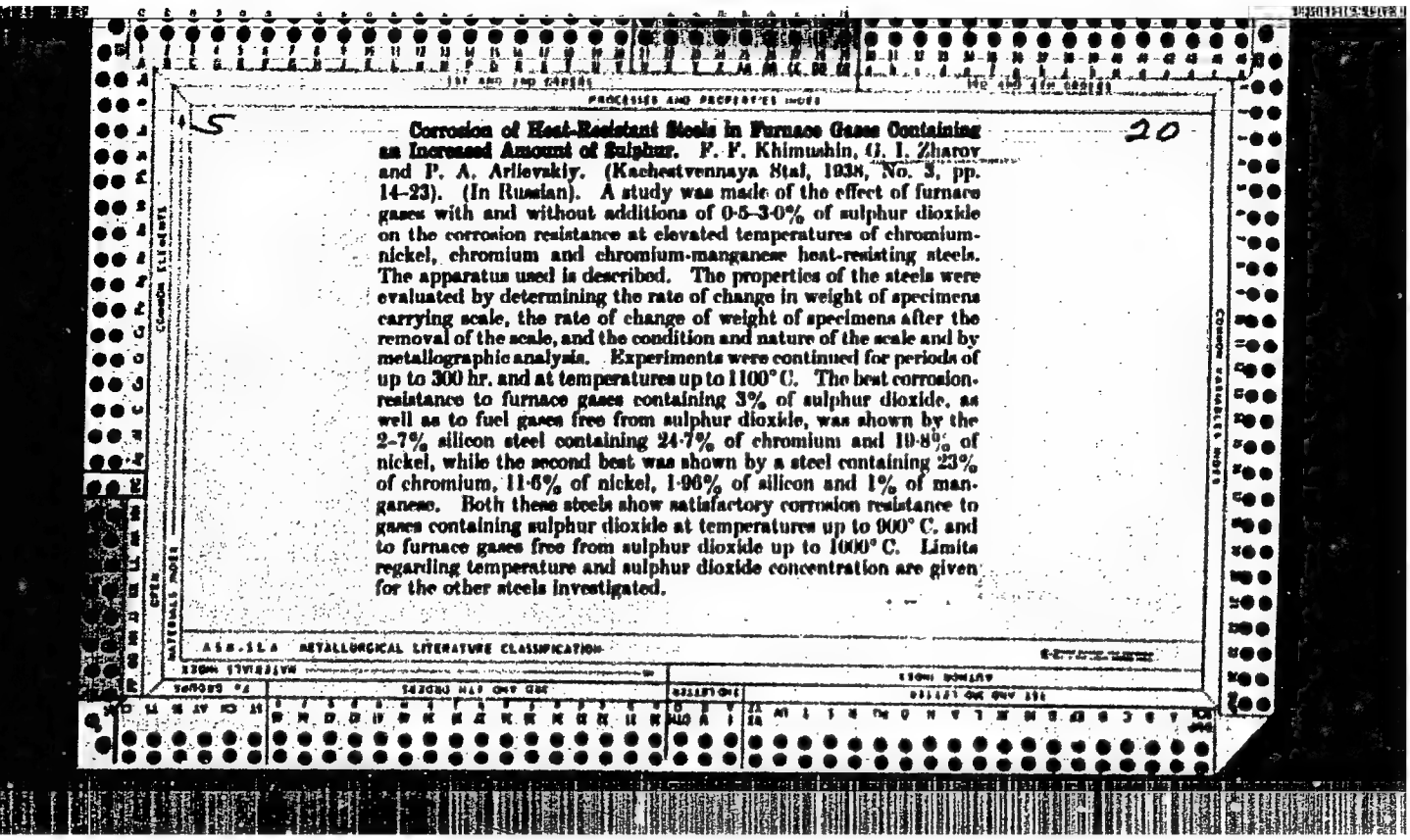
M.I. IAnovskii's studies on the theory and calculations of steam and gas turbines. Trudy VNITOSS 6 no.1:128-135 '53.
(MLRA 9:11)

(IAnovskii, Mikhail Iosifovich, 1888-1949)
(Steam turbines)
(Marine gas turbines)

ZHAROV, I.S., zasl. deytatel' nauki, prof., otv. red.; KOLESNIKOV, S.A., prof., red.; NAPALKOV, P.N., zasl. deyatel' nauki, prof., red.; ROVNOV, A.S., prof., red.; DAMIR, Ya.A., kand. med.nauk, red.; DARBINYAN, T.M., kand. med.nauk, red.; SERGEYEV, V.M., kand. med. nauk, red.; UVAROV, B.S., kand. med. nauk, red.; LUKUMSKIY, G.I., kand. med.nauk, red.; BUKOVSKAYA, N.A., tekhn. red.

[Transactions of the First Symposium on Anesthesiology] Trudy Simpoziuma po anesteziologii. 1st, Moscow, 1960. (MIRA 16:9)

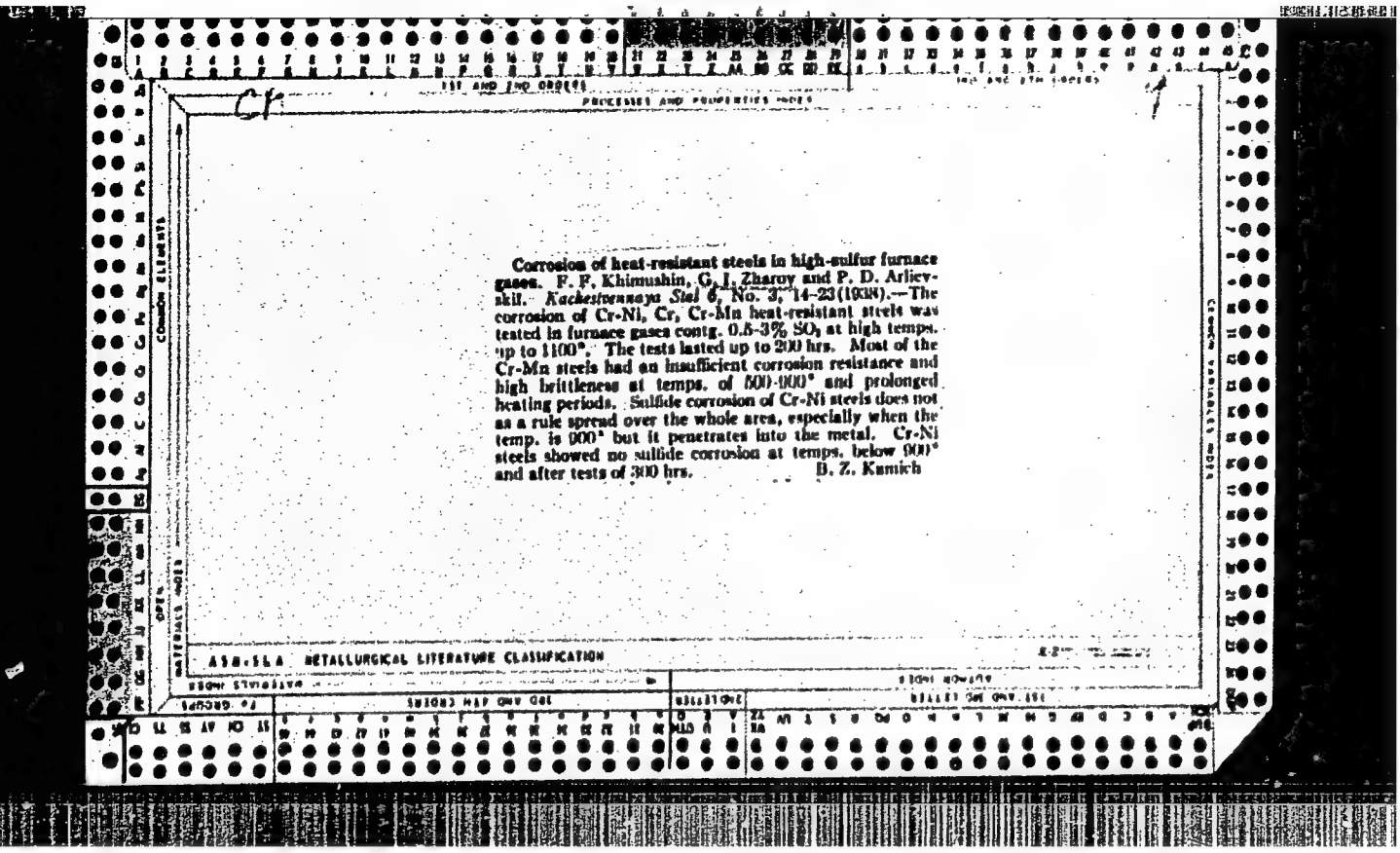
1. Simpozium po anesteziologii. 1st, Moscow, 1960.
(ANESTHESIOLOGY—CONGRESSES)



5

20

Corrosion of Heat-Resistant Steels in Furnace Gases Containing an Increased Amount of Sulphur. F. F. Khimushin, G. I. Zharov and P. A. Arlievskiy. (Kachestvennaya Stal, 1938, No. 3, pp. 14–23). (In Russian). A study was made of the effect of furnace gases with and without additions of 0·5–3·0% of sulphur dioxide on the corrosion resistance at elevated temperatures of chromium-nickel, chromium and chromium-manganese heat-resisting steels. The apparatus used is described. The properties of the steels were evaluated by determining the rate of change in weight of specimens carrying scale, the rate of change of weight of specimens after the removal of the scale, and the condition and nature of the scale and by metallographic analysis. Experiments were continued for periods of up to 300 hr. and at temperatures up to 1100° C. The best corrosion-resistance to furnace gases containing 3% of sulphur dioxide, as well as to fuel gases free from sulphur dioxide, was shown by the 2–7% silicon steel containing 24·7% of chromium and 19·8% of nickel, while the second best was shown by a steel containing 23% of chromium, 11·6% of nickel, 1·96% of silicon and 1% of manganese. Both these steels show satisfactory corrosion resistance to gases containing sulphur dioxide at temperatures up to 900° C. and to furnace gases free from sulphur dioxide up to 1000° C. Limits regarding temperature and sulphur dioxide concentration are given for the other steels investigated.



Corrosion of heat-resistant steels in high-sulfur furnace gases. F. F. Khimushin, G. I. Zharov and P. D. Arlievskii. *Kachestvennaya Stal* 6, No. 3, 14-23 (1938).—The corrosion of Cr-Ni, Cr, Cr-Mn heat-resistant steels was tested in furnace gases contg. 0.5-3% SO_2 at high temps. up to 1100°. The tests lasted up to 200 hrs. Most of the Cr-Mn steels had an insufficient corrosion resistance and high brittleness at temps. of 500-900° and prolonged heating periods. Sulfide corrosion of Cr-Ni steels does not as a rule spread over the whole area, especially when the temp. is 900° but it penetrates into the metal. Cr-Ni steels showed no sulfide corrosion at temps. below 900° and after tests of 300 hrs. B. Z. Kunich

ZHAROV, K. A.

"Comparative Investigation of Flat Bed Press Drives and Methods for Their Computation." Cand Tech Sci, Moscow Polygraphic Inst, Min of Higher Education USSR, Moscow, 1955. (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

ZHAROV, N.

Building

Rural building in Velikiye Luki Province. Sel'stroi. 7 no.2:6-7 Mr-Ap '52.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

L 13597-66

ACC NR: AP6001010 (A) SOURCE CODE: UR/0286/65/000/022/0083/0083

AUTHORS: Kuznetsov, V. S.; Vikhman, V. S.; Leont'yev, K. L.; Zharov, N. A.

ORG: none

TITLE: Controllable light filter. Class 57, No. 176489

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 83

TOPIC TAGS: light filter, electrooptic effect

ABSTRACT: This Author Certificate presents a controllable light filter consisting of a polarizer, an analyzer, and (between them) a set of anisotropic plates, e.g., of cellophane, having rotational dispersion. For inertialess control of the light pass band of the filter, the filter is provided with sheets, e.g., of ammonium dihydrophosphate capable of electrooptical effects. Transparent electrodes, to which the controlling voltage is supplied, are applied to the sheets, which are placed in front of the analyzer (see Fig. 1).

Card 1/2

UDC: 535.345.66

L 13597-66

ACC NR: AP6001010

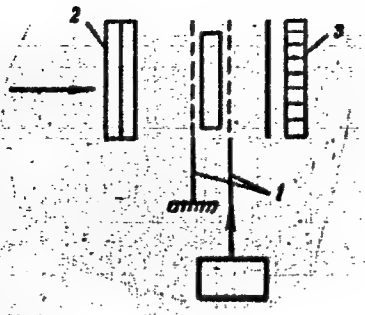


Fig. 1. 1 - Electrodes; 2 - polarizer; 3 - analyzer.

Orig. art. has: 1 diagram.

SUB CODE: 20/ SUBM DATE: 11Dec63

Card 2/2

L 24870-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)
ACC NR: AP6006373 SOURCE CODE: UR/0413/66/000/002/0107/0107

AUTHORS: Kuznetsov, V. S.; Vikhman, V. S.; Leont'yev, K. L.; Zharov, N. A.; Rez, I. S.

46
B

ORG: none

TITLE: An automatic pyrometer of the spectral ratio. Class 42, No. 178146

10

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 107

TOPIC TAGS: automatic control technology, pyrometer, spectrum analyzer, precision instrument machinery

ABSTRACT: This Author Certificate presents an automatic spectral ratio pyrometer. The pyrometer contains a radiation receiver, an amplifier, an output signal commutator, and an indicator or a slave mechanism. The design shortens the pyrometer response time, increases the instrumental precision, and simplifies the scaling circuit of the pyrometer. The unit has an electro-optical system in the form of a rapid response dispersion light filter with an electro-optical crystal (see Fig. 1). This crystal is switched by an electronic commutator. The output of the circuit controlli , the sensitivity of the radiation receiver (to normalize the

14

2

Card 1/2 UDC: 536.521:621.383

L 24870-66

ACC NR: AP6006373

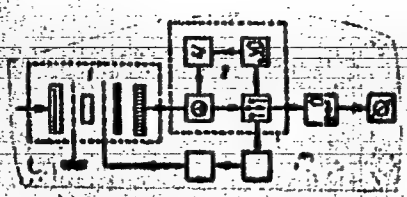


Fig. 1. 1 - rapid response controlled electro-optical light filter; 2 - circuit for controlling the sensitivity of the radiation receiver.

output signal) is connected to one of the outputs of the electronic commutator. The output of the sensitivity control circuit is connected to the outputs of the radiation receiver. Orig. art. has: 1 figure.

SUB CODE: 20,01,14/SUBM DATE: 06Jun64

Card 2/2 dda

SOLNYSHKOV, V.A., red.; ARABADZHYAN, I.R., red.; GOL'DIN, A.L., red.; ZHAROV, N.I., red.; IOKHEL'SON, A.Ya., red.; KRICHEVSKIY, I.Ye., red.; SKOMOROVSKIY, Ya.G., red.; SUDAKOV, V.B., red.;SHEVCHENKO, A.N., red.; RZHONSNITSKIY, B.N., red.

[Collection of reports on hydraulic engineering] Sbornik dokladov po gidrotekhnike. Moskva, Gosenergoizdat, 1963. 262 p. (MIRA 17:9)
1. Nauchno-tekhnicheskaya konferentsiya molodykh nauchnykh rabotnikov. 5th, Leningrad, 1959.

SYSOYEV, F.I., gornyy inzhener; ZHAROV, N.I., gornyy inzhener; GOTOVTSEV, Yu.A., gornyy inzhener.

Practice of operating SKR-11 scraper conveyers with higher chain speeds. Vop. rud. transp. no.2:27-29 1857. (MIRA 14:4)

1. Shakhta No. 40 "Kurakhovka" (for Zharov). 2. Dnepropetrovskiy gornyy institut (for Gotovtsev).
(Conveying machinery—Testing)

AKUTIN, G.K. [Akutin, H.K.]; GAYEVENKO, Yu.O. [Haievenko, IU.O.]; DYACHENKO, M.Ya.; ZHAROV, M.T.; IVANOV, S.K.; KARNYUSHIN, L.B.; KLODNITSKIY, I.I. [Klodnyts'kyi, I.I.]; KOBUS, Yu.Y. [Kobus, IU.I.]; KOZLIU, V.Y. [Kozliuk, V.I.]; KORYTNIKOV, V.P.; KOROBKO, M.I.; KOSTOGRIZOV, V.S. [Kostohryzov, V.S.]; LADIYEV, R.Ya. [Ladiiev, R.IA.]; MARTYNIUK, G.F. [Martyniuk, H.F.]; MEL'NIK, P.M.; kand.tekhn.nauk; NAVOL'NEV, S.Ya. [Navol'niev, S.IA.]; SIN'KOV, V.M.; SPINU, G.O. [Spynu, H.O.]; SHOYKHET, L.A.; SHUMILOV, K.A.; KORSAK, Yu.Ye. [Korsak, IU.IE.], red.; LAGUTIN, I.A. [Lahutin, I.A.], tekhn.red.

[Automation in industry] Avtomatizatsiia v promyslovosti. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1960. 288 p. (MIRA 14:12)

(Automation) (Industrial management)

GORSHKOV, A.A., professor, redaktor; ZHAROV, N.T., kandidat tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Foundry practice; experience of Ural plants] Liteinoe proizvodstvo; opyt Ural'skikh zavodov. Pod red. A.A.Gorshkova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 166 p. [Microfilm] (MLRA 10:4)

1. Vsesoyuznoye nauchnoye inzhenerno-tekhnicheskoye obshchestvo liteyshchikov. Ural'skoye otdeleniye.
(Ural Mountain region--Founding)

ZHAROV, N. T.

PA 196T59

USSR/ Engineering - Foundry, Equipment Jun 51

"Automatic Regulation of Air Blast in a Cupola Furnace," N. T. Zharov, Ural Polytech Inst

"Litey Proizvod" No 6, pp 11-13

The "Uralvagonzavod" (Ural Railroad Car Bldg) Plant constructed, and now uses, a device for automatic vol regulation of air entering cupola. Construction of the transmitting element of the regulator is based on use of the circular balance as a regulator. Up to now the circular balance has been used only as a consumption meter.

196T59

ZHAROV, N. T.

USSR/Engineering - Foundry, Equipment Feb 52

"Universal Machine for Casting Bimetallic Sleeves by the Centrifugal Method," N. T. Zharov, Cand Tech Sci, Ural Polytech Inst

"Litey Proizvod" No 2, pp 10, 11

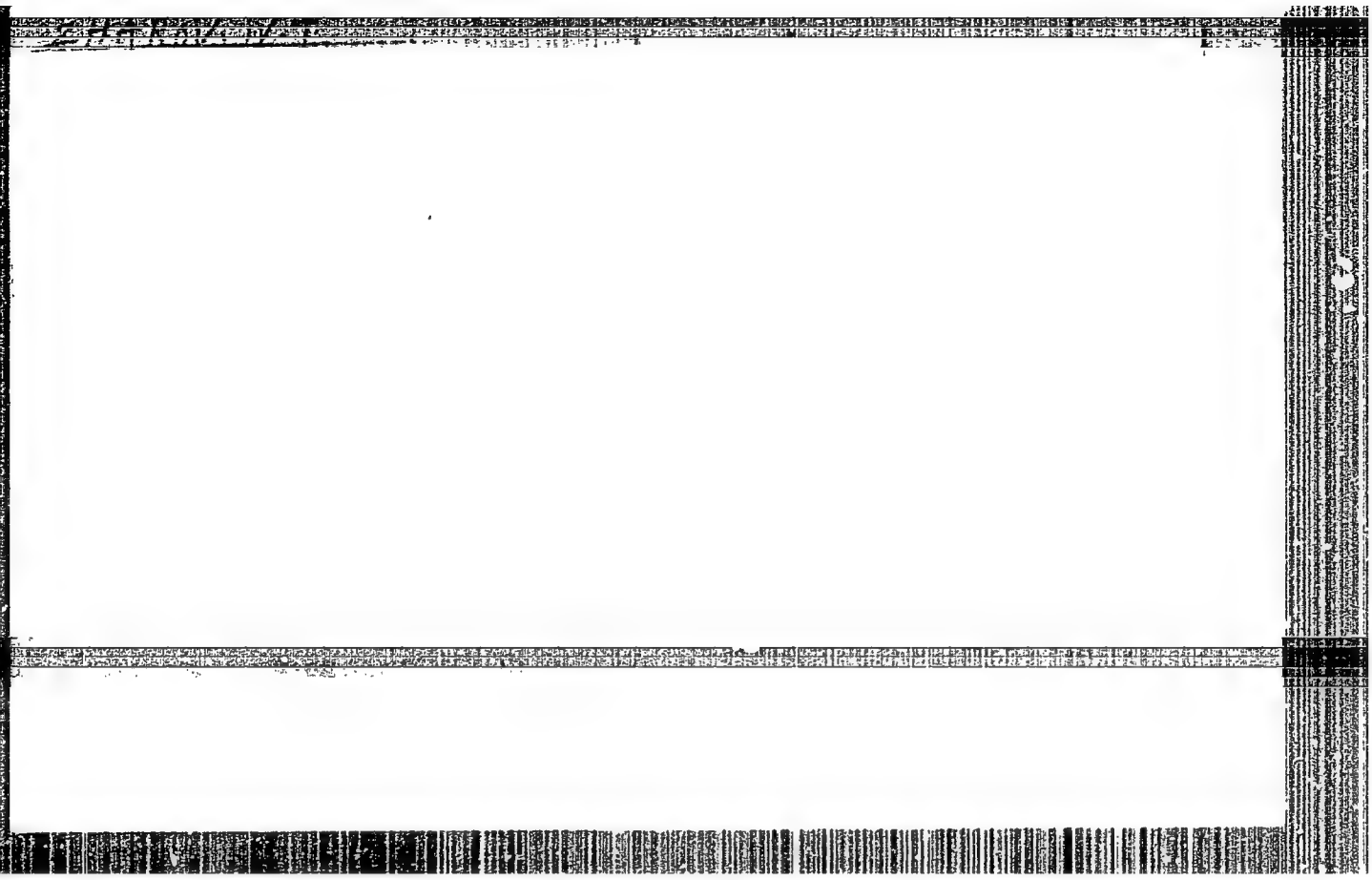
Describes machine which may be easily adjusted for various diams and lengths of sleeves subject to lining with bronze or any other alloy. Metal is introduced in molten state or in solid chunks, being melted in latter case inside of steel sleeve during operation of machine. Gives schematic drawings.

207T41

ZHAROV, N.T.

ZHAROV, N.T.; GORSHKOV, A.A., professor, doktor tekhnicheskikh nauk, redaktor.

[Problem of automatization in foundry practice] Voprosy avtomatizatsii liteinogo proizvodstva. Pod red. A.A.Gorshkova. Moskva, Gos. nauchn.-tekhn. izd-vo mashinostroitel'noi i sudostroitel'noi lit-ry, 1953. 262 p. (MLRA 7:7)
(Founding)



RAZUMOV, V.N.; ZHAROV, N.T., kandidat tekhnicheskikh nauk, retsenzent; KALETINA, A.V., inzhener, redaktor; ZAKHAROV, B.P., redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Making molds for large castings]Formovka krupnykh otlivok. Pod red. B.P.Zakharova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1954. 46 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.6) (MLRA 8:11)
(Molding(Founding))

VOLPYANSKIY, I.M.; GORSHKOV, A.A., doktor tekhnicheskikh nauk, retsenzent; ZHAROV, N.T., doktor tekhnicheskikh nauk, retsenzent; ZAKHAROVA, B.P. inzhener, redaktor; DUGINA, I.A., tekhnicheskiy redaktor

[Casting iron in metallic molds] Chugunnoe lit'e v metallicheskie formy. Pod red. B.P.Zakharova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 52 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.8) [Microfilm] (MLRA 8:2)
(Iron founding)

ZAKHAROV, B.P.; GOROSHKOV, A.A., doktor tekhnicheskikh nauk, retsenzent; ZHAROV, N.T., doktor tekhnicheskikh nauk, retsenzent; KUZIN, R.P., inzhener, retsenzent; DUGINA, N.A., tekhnicheskiy redaktor

[Foundry practice] Liteinoe proizvodstvo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 64 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.1) [Microfilm] (MIRA 8:2)
(Founding)

ZAKHAROV, B.P.; ZHAROV, N.T., kandidat tekhnicheskikh nauk, retsenzent;
DUGINA, N.A., tekhnicheskiy redaktor.

[Performing the technological process of molding] Razrabotka tekhnologicheskogo protsessa formovki. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1955. 38 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.3) (MLRA 8:11)
(Molding(Founding))

ZHAROV,

VOLPYANSKIY, L.M.; ZAKHAROV, B.P., redaktor; ZHAROV, kandidat tekhnicheskikh nauk, retsenzent; KALETINA, A.V., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Machine molding] Mashinnaia formovka. Pod red. B.P.Zakharova, Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1955. 62 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.7) (MLRA 8:11)

(Molding(Founding))

112-1-1391

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p.214 (USSR)

AUTHOR: Zharov, N.T.

TITLE: Examples of Automation in Foundry Work (Primery avtomatizatsii v liteynom proizvodstve)

PERIODICAL: From: Primery avtomatiz. i mekhaniz. proiz-va. Moscow - Sverdlovsk, Mashgiz, 1955, pp.24-38.

ABSTRACT: Bibliographic entry.

Card 1/1

ZHAROV, N.T.

112-3-6572

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 209 (USSR)

AUTHOR: Zharov, N.T.

TITLE: Automatic Control of Basic Foundry Processes (Avtomaticheskiy kontrol' i regulirovaniye osnovnykh protsessov v liteynom proizvodstve)

PERIODICAL: In Sbornik: Avtomatizatsiya tekhnol. protsessov v mashinostr., Moscow, AN SSSR, 1955, pp. 339-358

ABSTRACT: Automatic control terminology and a brief classification of control devices are presented. The principles of measurement by electronic balanced and induction bridges and the operation of the ЭРМ-47 electronic control millivoltmeter are explained. The ПРЭ -94 (Central Automation Laboratory, Ministry of Ferrous Metallurgy)

Card 1/3

Automatic Control of Basic Foundry Processes (Cont.)

electronic-pneumatic controller, together with an induction bridge, can be used for automatic control of liquid, steam and air consumption, and for proportioning the consumption, pressures, vacuum, liquids levels, etc. A diagram and explanation of the controller are included. The most effective criterion of an effective smelting process is the constancy of CO_2 content in the exhaust gases. As a result of the analysis of several methods for the automatic control of air consumption, it is suggested that the ГЭУК-20, ГЭУК-21 and ГЭА-30 electrical gas analyzers be used in conjunction with the ЭП-120 electronic potentiometer and the ИР-130 P.I. controller ("izodromnyy regulyator"). The use of instantaneous-action capacitive transmitting elements is suggested for the automatic control of moisture in cupola furnace blowing. The author designed an installation with automatic control of blowing moisture, in which the transmitting element is an electrical hygrometer in the form of a bridge with two moist arms.

Card 2/3

Automatic Control of Basic Foundry Processes (Cont.) 112-3-6572

Also described are: an automatic control circuit for supplying oxygen to the cupola furnace by means of a thermocouple or the ФЭП-3 photoelectric radiation pyrometer in conjunction with the ЭРМ-47 regulator; an automatic control system of the amount of molding sand in the distribution hoppers by means of dosage arrangements with contact devices which are connected to a magnetic conveyor starter; a connection diagram of a device for switching off the molding machine jolting mechanism when sufficient material is accumulated for molding; a simple system of controlling the cross section of the metal flow in the process of casting rollers by introducing a cone-shaped grooved plug into the gate opening.

I.L.K.

Card 3/3

ZHAROV,N. kandidat tekhnicheskikh nauk, dotsent.

Founding. Tekh. mol. 23 no.4:18-22 Ap '55. (MLRA 8:6)

1. Ural'skiy politekhnicheskiy institut.
(Founding)

ZHAROV, N.T., kandidat tekhnicheskikh nauk.

Automatic mixing of molding materials on laboratory FB-2 jockey pulleys. Trudy Ural. politekh. inst. no.60:27-36 '56. (MLRA 9:10)

(Foundry machinery and supplies) (Metallurgical laboratories) (Automatic control)

ZHAROV, N.T., kandidat tekhnicheskikh nauk.

Construction of standard relays for automatization in founding.
Trudy Ural. politekh. inst. no.60:37-46 '56. (MLRA 9:10)

(Founding) (Automatic control)

ZHAROV, N.T., kandidat tekhnicheskikh nauk.

Device for evaluating the amount of scale on specimens.
Trudy Ural. politekh. inst. no.60:47-53 '56. (MLRA 9:10)

(Foundry machinery and supplies) (Metallurgical laboratories)

ZHAROV, N.T.; CHERTORYZHSKIY, K.K.

Control of molding sand moisture by the conductometric method.
Lit.proizv. no.7:10-12 Jl '64. (MIRA 18:4)

DEMIN, Lev Mikhaylovich; ZHAROV, V.A., otv. red.; REZNIKOV, V.L., red.

[Island of Bali] Ostrov Bali. Moskva, Nauka, 1964. 303 p. (MIRA 18:1)

ZHAROV, N.T.; DUBININ, N.P., doktor tekhn. nauk, prof., retsenzent; POLOVINKIN, P.I., dots., retsenzent; CHERNIN, E.A., inzh., retsenzent; ZHESTKOVA,I.N.,inzh.,red.

[Automation of certain foundry processes] Avtomatizatsiia nekotorykh liteinykh protsessov. Moskva, Mashinostroenie, 1964. 278 p. (MIRA 18:1)

L 24787-65 EPF(c)/EPR/EWP(j)/EWT(m)/T Pc-4/Pr-4/Pa-4 SPL RM/WW
ACCESSION NR: AP4049618 S/0076/64/038/011/2727/2730

Card 1/2

ZHAROV, N.T., kand.tekhn.nauk; ONISHCHENKO, K.I., inzh.; KUSHCH, M.M., inzh.; CHERTORYZHSKIY, K.K., inzh.

Automation of the preparation of molding sand in milling machines. Mashinostroenie no.6:27-31 N-D '63. (MIRA 16:12)

ZHAROV, N.T.; KUSHCH, M.M.

Searching and correcting method of sand mixture distribution. Lit. proizv. no.8:13-14 Ag '63. (MIRA 16:10)

ALEKSEYEV, S.A.; BALABIN, V.V.; BARBASHIN, N.N.; GORSHKOV, A.A.; ZHAROV, N.T.; MARIYENBAKH, L.M.; RUBTSOV, N.N., doktor tekhn. nauk, prof.[deceased]; SERGEYEV, V.S.; SOSNENKO, M.N.; FROLOV, V.V.; KONSTANTINOV, L.S., kand. tekhn. nauk, red.; CHERNYAK, O.V., red. izd-va; UVAROVA, A.F., tekhn. red.; TIKHANOV, A.Ya., tekhn. red.

[Fondryman's handbook; general information on founding]Spravochnik liteishchika; obshchie svedeniia po lit'iu. [By]S.A.Alekseyev i dr. Pod obshchei red. N.N.Rubtsova. Moskva, Mashgiz, 1962. 524 p. (MIRA 16:1)
(Founding--Handbooks, manuals, etc.)

ZHAROV, N.T.; KUSHCH, M.M.; RED'KO, Yu.I.

Introducing automatic control of loam mixture feeding in foundries.
Lit.proizv. no.7:17-20 Jl '61. (MIRA 14:7)
(Sand, Foundry) (Automatic control)

ZHAROV, N.T.

PHASE I BOOK EXPLOITATION SOV/5789

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Kiyevskogo ekonomicheskogo rayona

Goryachaya obrabotka metallov; trudy konferentsii. vyp. 2. (Hot Working of Metals; Transactions of the Scientific Technological Conference on the Development of the Productive Forces of the Kiyev Economic Region. no. 2) Kiyev, Izd-vo AN UkrSSR, 1960. 142 p. 1000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR. Institut liteynogo proizvodstva. Sovet narodnogo khozyaystva Kiyevskogo ekonomicheskogo rayona. Tekhniko-ekonomicheskiy sovet.

Editorial Board: Resp. Ed.: A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR, B.B. Tsizin, Engineer, and F.A. Novikov, Engineer; Ed. of Publishing House: T.K. Remennik; Tech. Ed.: O.A. Kadashevich.

PURPOSE: This collection of articles is intended for technical personnel in machine plants and planning organizations, scientific workers, and teachers in technical schools of higher education.

Card 1/6

Hot Working of Metals (Cont.) SOV/5789

COVERAGE: The book is devoted to problems of the introduction of advanced technology and processing in founding and pressworking. Problems in powder metallurgy are also analyzed. No personalities are mentioned. References accompany some of the articles. There are 56 references, mostly Soviet.

TABLE OF CONTENTS:

Card 2/6

NOSOVA, Yelizaveta Mikhaylovna; KUGEL', Arkadiy Vasil'yevich; KUZNETSOV, Nikolay Andreyevich; ZHAROV, N.T., kand. tekhn. nauk; LUPANDIN, I.V., red.; GORKAVENKO, L.I., tekhn. red.

[Foundryman's handbook] Spravochnik liteishchika. Izd.2., perer. i dop. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1961. 610 p. (MIRA 14:10)

(Founding)

ZHAROV, N.T., kand.tekhn.nauk; PORUCHIKOV, Yu.P., kand.tekhn.nauk; SIMONOV, V.F., kand.tekhn.nauk

Making shell molds from mixtures on a water glass base. Trudy Ural.politekh.inst. no.89:39-45 '59. (MIRA 12:8)
(Shell molding (Founding)) (Soluble glass)

ZHAROV, N

18(5) PHASE I BOOK EXPLOITATION SOV/2048

Sverdlovsk. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova

Teoriya i praktika liteynogo proizvodstva (Theory and Practice in the Foundry Industry) Moscow, Mashgiz, 1959. 231 p. and 32 p. (Series: Its: [Sbornik] vyp. 89) Errata slip inserted. 5,000 copies printed.

Ed.: A.A. Gorshkov, Corresponding Member, USSR Academy of Sciences, Doctor of Technical Sciences, Professor; Tech. Ed.: N.A. Dugina; Exec. Ed. (Ural-Siberian Division, Mashgiz): A.V. Kaletina, Engineer.

PURPOSE: This book is intended for engineering and scientific workers of institutes and machine-building plants, as well as for students of advanced courses at vuzes.

COVERAGE: This collection consists of articles dealing with practical problems in foundry processes. The articles review the achievements of Ural foundry workers in the past 40 years and present aspects of a current study on the casting of nodular cast iron, its properties and casting methods. A description is given of artistic and architectural casting. Consideration is given to the problem of combatting gases in steel and aluminum. The structure of cast steel is discussed. A recent investigation of vacuum casting including its characteristic properties and new applications is also presented. There are 32 pages of photographs illustrations at the end of the book. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Theory and Practice in the Foundry Industry SOV/2048

PART 1. GENERAL PROBLEMS IN CASTING

In this article and the preceding one the author discusses the results of a laboratory-scale investigation to determine the hydraulic laws and the characteristics of the multiple level gate system.

The authors briefly review thermosetting materials used as binders in mold making and makes a parallel comparison with water glass used for the same purpose. They stress the technical and economical advantages of the latter. Also given are the composition of water glass binders, favorable acting additives, and methods of application.

4

ZHAROV N I

VOLPYANSKIY, Lev Markovich,; ZAKHAROV, B.P.,red.; GORSHKOV, A.A., doktor tekhn. nauk,retsenzent,; ZHAROV, N.T., kand.tekhn.nauk,retsenzent,; DUGINA, N.A.,tekhn. red.

[Casting in metal molds] Lit'e v metallicheskie formy. Izd. 2. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 60 p.. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.8) . (MIRA 11:12)

(Founding)

ZHAROV N.T.

VOL'YANSKIY, Lev Markovich; ZHAROV, N.T., kand.tekhn.nauk, retsenzent; ZAKHAROV, B.P., red.; SAKHAROVA, O.A., tekhn.red.

[Machine molding] Mashinnaia formovka. Pod red. B.P.Zakharova. Izd.2-oe. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 72 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.7) (MIRA 11:4)
(Machine molding (Founding))

KOROTAYEV, Yu. P., KORCHAZHKIN, M.T., ZOTOV, G.A., ZHAROV, N.V., MAKSIMOV, V.P., PETUKHOV, Ye. I., VOYTSITSSKIY, V.P.

Mobile unit for the complete investigation of gas wells.
Gaz.prom. 5 no.2:8-13 F '60. (MIRA 13:6)
(Gas wells)

AKSENOV, P.N.; BERG, P.P.; GODASHKOV, N.M.; VEYNIK, A.I.; GORSHKOV, A.A.; ZHAROV, N.T.; ZHUKOV, A.A.; ZOROKHOVICH, I.Z.; KUMANIN, I.B.; LEVI, L.I.; LYASS, A.M.; MARIYENBAKH, L.M.; ORLOV, G.M.; PORUCHIKOV, Yu.P.; RABINOVICH, B.V.; STOLBOVOY, S.Z.; FEYGEL'SON, B.Yu.; VASILEVSKIY, P.F., red.; KLOCHNEV, N.I., red.; KONSTANTINOV, L.S., red.; POLYAKOV, Ya.G., red.; MARKIZ, Yu.L., red.izd-va; UVAROVA, A.F., tekhn.red.

[Theory of founding processes] Voprosy teorii liteynykh protsessov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 692 p. (MIRA 13:7)

(Founding)

PHASE I BOOK EXPLOITATION SOV/4666

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PURPOSE: This book is intended for technical personnel of the founding industry.

COVERAGE: This book on founding theory is the result of the joint efforts of metallurgical departments of various schools of higher education and scientific research institutes. Theoretical studies and the scientific research in the field of founding are summarized and discussed. This volume (first of a planned series) is devoted to a number of important theoretical problems of founding dealing with molding, melting, pouring, solidification of casting, the machinery used, and automation. The terminology used in founding is also given. No personalities are mentioned. Each chapter is accompanied by references.

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AUTHOR: Zharov, P. N.

TITLE: A rapid method for radium determination in water

PERIODICAL: Radiokhimiya, v. 2, no. 5, 1960, 630 - 631

TEXT: The suggested method for radium determination involves no evaporation, boiling, melting or other analytical operations usually used in this case. Calcium carbonate is used for co-precipitating the radium from the water, together with activated carbon. The settled residue is separated by decanting the liquid, transferring the residue to a small filter, and dissolving it in hydrochloric acid and transferring it into a bubbler. The advantages of the method described are given as being: convienience of use under field conditions, not requiring transportation of large quantities of water and a considerable increase in productivity. A check of the thoroughness of the radium extraction from waters using liquid standards added to the complex mixtures resulted in the figures given in the table. The analysis procedure is outlined in the following manner: The volume of the water, depending on the expected quantity of

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radium ($n \cdot 10^{-12}$ - $n \cdot 10^{-9}$ g/l) is between 10 to 0.5 l. The water is acidified with hydrochloric acid, counting 2 ml to 1 ml for destroying the hydrocarbonates, in which it is possible to partially dissolve the radium; after this 1 ml of saturated solution of calcium chloride to 1 l of solution is added. Then small amounts of dry ground soda are added, till the moment the calcium carbonate is formed, after which the carbonic acid is removed by blowing through with air, and then 50 ml of a 10 % solution of soda and about 0.2 gr of activated carbon are added to improve the coagulation. Everything is thoroughly mixed with a glass rod. For a volume of water 10 l, 5 ml of a solution of calcium chloride, dry soda are added directly into the bottle (after acidifying with HCl according to methyl orange) till a cloudiness is formed the carbonic acid is blown out, then 250 ml of a 10 % solution of soda are added, as well as about 0.7 g of activated carbon, the contents of the bottle are shaken and left to form a residue. The radium in the water co-precipitates out together with the calcium carbonate. After 1 - 3 hours (may be left over night), the illuminated part over the settled residue of the carbonates and the carbon, is poured together by means of a rubber siphon and the residue is filtered off on a filter "white ribbon" having a diameter of 9 cm, and is washed with a 1 % solution of

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soda, till the reaction on the ion SO_4^{2-} disappears in the rinsing water. Then the residue is washed one more time with water. After the residue has been separated off, the latter is dissolved in HCl, the bottle is washed with acid and reprecipitation of the radium is carried out with carbonate, of lesser volumes (1 - 0.5 l). The washed residue is dissolved on the filter in HCl (1 : 3), added to 5 ml several times, with acid, which adds to the basic solution. The collected hydrochloric filtrate in a volume of about 40 ml is transferred to the bubbler through a small funnel, and the time of transfer is recorded. The bubbler is sealed. After radon has accumulated, measurements are carried out on an electrometer. There is one table.

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